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 TITLE: **Novel method for identifying antibacterial compounds**  
 INVENTOR(S): **Loferer, Hannes; Jacobi, Alexander**  
 PATENT ASSIGNEE(S): GPC Biotech A.-G., Germany  
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 PATENT INFORMATION:

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WO 2000061793	A2	20001019	WO 2000-EP3135	20000407
WO 2000061793	A3	20010111		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1043403	A1	20001011	EP 1999-107031	19990409
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
EP 1165832	A2	20020102	EP 2000-920677	20000407
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002541820	T2	20021210	JP 2000-611715	20000407
US 2004086937	A1	20040506	US 2001-973674	20011009
PRIORITY APPLN. INFO.:			EP 1999-107031	A 19990409
			EP 2000-102111	A 20000204
			WO 2000-EP3135	W 20000407

## ABSTRACT:

The present invention relates to a method for identifying an antagonist or inhibitor of the expression of a gene encoding a polypeptide essential for bacterial growth or survival as well as for an antagonist or inhibitor of said polypeptide. The invention further relates to a method for improving antagonists or inhibitors. The invention also provides an antagonist or inhibitor of the activity of said polypeptide. The invention is further related to a method for producing a therapeutic agent in a composition comprising said antagonist or inhibitor. Furthermore, the invention is related to the use of the polypeptide and the antagonist or inhibitor as well as to a method to identify a surrogate marker.

SUPPL. TERM: bactericide screening protein sequence bacterial gene

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(b1808; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(b1983; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Antibiotics  
Cell death  
Drug screening  
Molecular modeling  
(bacterial genes for identifying antibacterial compds.)

INDEX TERM: mRNA  
ROLE: ANT (Analyte); ANST (Analytical study)  
(bacterial genes for identifying antibacterial compds.)

INDEX TERM: Cytokines  
ROLE: PEP (Physical, engineering or chemical process); THU  
(Therapeutic use); BIOL (Biological study); PROC (Process);  
USES (Uses)  
(bacterial genes for identifying antibacterial compds.)

INDEX TERM: Infection  
(bacterial; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene  
(expression; bacterial genes for identifying  
antibacterial compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(gcpE; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(kdtB; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Phenotypes  
(lethal, in bacteria; bacterial genes for identifying  
antibacterial compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(pfs; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(yacE#; bacterial genes for identifying antibacterial

INDEX TERM: compds.)  
Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(yagF; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(ybeY; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(ycaJ; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(yceG; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(ychB; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(yeaA; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(yejD; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(yfhC; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological  
study); OCCU (Occurrence); PROC (Process)  
(ygbB; bacterial genes for identifying antibacterial  
compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);

INDEX TERM: BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(ygbP; bacterial genes for identifying antibacterial compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(yggJ; bacterial genes for identifying antibacterial compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(yhbC; bacterial genes for identifying antibacterial compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(yiaO; bacterial genes for identifying antibacterial compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(yidD; bacterial genes for identifying antibacterial compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(yjbC; bacterial genes for identifying antibacterial compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(yjeE; bacterial genes for identifying antibacterial compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(yrdC; bacterial genes for identifying antibacterial compds.)

INDEX TERM: Gene, microbial  
ROLE: BOC (Biological occurrence); BPR (Biological process);  
BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(yrfI; bacterial genes for identifying antibacterial compds.)

INDEX TERM: 138861-41-3 147095-82-7, DNA (Escherichia coli clone pLKP146 20.1-kilodalton protein gene) 205901-49-1, DNA (Escherichia coli gene pfs) 249654-13-5, DNA (Escherichia coli gene ychB) 256360-44-8, DNA (Escherichia coli gene ispD) 259781-23-2, DNA (Escherichia coli gene ygbB)

300430-82-4, DNA (Escherichia coli gene yggJ) 300430-83-5,  
DNA (Escherichia coli gene yhbC) 300756-85-8, DNA  
(Escherichia coli gene yacE) 300756-86-9, DNA (Escherichia  
coli gene yejD) 300756-87-0, DNA (Escherichia coli gene  
yrfI) 300756-89-2, DNA (Escherichia coli gene yiaO)  
300756-90-5, DNA (Escherichia coli gene yrdC) 300756-91-6,  
DNA (Escherichia coli gene ybeY) 300756-92-7, DNA  
(Escherichia coli gene gcpE) 300756-95-0, DNA (Escherichia  
coli gene yeaA) 300756-96-1, DNA (Escherichia coli gene  
yagF) 300756-97-2, DNA (Escherichia coli gene b1983)  
300756-98-3, DNA (Escherichia coli gene yidD) 302335-48-4,  
DNA (Escherichia coli gene yjeE) 302335-66-6, DNA  
(Escherichia coli gene ycaJ) 302335-67-7, DNA (Escherichia  
coli gene b1808) 302335-72-4, DNA (Escherichia coli gene  
yceG) 302335-81-5, DNA (Escherichia coli gene yjbC)  
ROLE: BOC (Biological occurrence); BSU (Biological study,  
unclassified); PRP (Properties); BIOL (Biological study);  
OCCU (Occurrence)  
(nucleotide sequence; bacterial genes for identifying  
antibacterial compds.)

## INDEX TERM:

249264-91-3, PN: WO9954470 SEQID: 22 unclaimed DNA  
249264-92-4, PN: WO9954470 SEQID: 23 unclaimed DNA  
249264-93-5, PN: WO9954470 SEQID: 24 unclaimed DNA  
300757-67-9, 61: PN: EP1043403 SEQID: 4 unclaimed DNA  
300757-69-1, 62: PN: EP1043403 SEQID: 5 unclaimed DNA  
300757-70-4, 63: PN: EP1043403 SEQID: 6 unclaimed DNA  
300757-71-5, 64: PN: EP1043403 SEQID: 7 unclaimed DNA  
300757-72-6, 65: PN: EP1043403 SEQID: 8 unclaimed DNA  
300757-73-7, 66: PN: EP1043403 SEQID: 9 unclaimed DNA  
300757-74-8 300757-75-9 300757-76-0 300757-77-1  
300757-78-2 300757-79-3

ROLE: PRP (Properties)  
(unclaimed nucleotide sequence; novel method for  
identifying antibacterial compds.)

## INDEX TERM:

159234-31-8 160404-87-5 169369-43-1 193840-38-9  
209613-36-5, Protein (Treponema pallidum gene TP0512)  
302688-13-7

ROLE: PRP (Properties)  
(unclaimed protein sequence; novel method for identifying  
antibacterial compds.)